

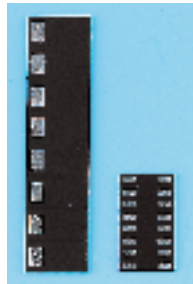
Mftrs. List No.	Order Code	1+	25+	100+
SLCD-61N1	<b>316-8128</b>			
SLCD-61N2	<b>316-8130</b>			
SLCD-61N3	<b>316-8141</b>			
SLCD-61N4	<b>316-8153</b>			
SLCD-61N5	<b>316-8165</b>			
SLCD-61N6	<b>316-8177</b>			
SLCD-61N7	<b>316-8189</b>			
SLCD-61N8	<b>316-8190</b>			

$V_{CC}$ V	$I_{LED(DC)}$ mA	$I_{LED(RP)}$ mA	$I_{LED(PK)}$ A	$V_{LEDA}$ V	$V_{IH(TXD)}$ V (max.)	$V_{IL(TXD)}$ V (max.)
4.75-5.25	100	660	1.0	-0.5-7.0	5.25	0.3

Mftrs List No.	Order Code	1+	50+	100+	250+	500+
<b>Surface Mount</b>						
HSDL-1100-018	<b>942-534</b>					
<b>Right Angle Mount</b>						
HSDL-1100-017	<b>942-522</b>					

## Solderable Planar Photodiode Arrays

SILONEX



8 x 1mm pitch array



8 x 2.54mm pitch array



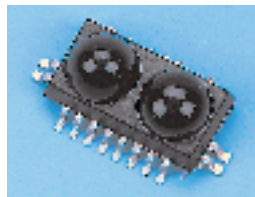
Photodiode arrays are ideal for position sensing applications, this type of array offers the smallest scale package for the usable active area. The solderable contacts allow chip termination without a wire-bonding machine.

Mftrs. List No.	Short circuit current (typ) @ 25mW/cm <sup>2</sup>	Open Circuit Voltage (typ)	Dark Current VR = 1V (max) $\mu$ A	Active area (per element)
SLCD-61S1008	80.0 $\mu$ A	0.40	3.0	1.2mm <sup>2</sup>
SLCD-61S2508	450.0 $\mu$ A	0.40	3.0	2.3mm <sup>2</sup>

Mftrs. List No.	Order Code	1+	25+	100+
SLDA-61S1008	<b>316-8311</b>			
SLDA-61S2508	<b>316-8323</b>			

## IrDA Compliant Products

### Infra-Red IrDA Compliant Transceiver



- Pin Description
- Shutdown
  - No connection
  - Supply voltage
  - Receiver data output
  - Ground
  - Transmitter
  - LED cathode
  - LED anode

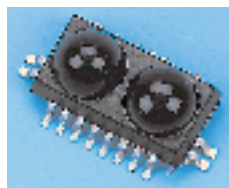


- Fully compliant to IrDA 1.0 - 115 Kb/s
- Compatible with ASK, HP-SIR, and TV Remote
- Superb nose-to-nose operation
- Low power consumption: 3 $\mu$ A in shutdown
- Supply voltage range: 2.7V - 5.5V
- Operational down to 2V
- Low latency: 100 $\mu$ s
- Drop in replacement for HDSL-1000
- Available in right angle package and surface mount (shown above)

$V_{CC}$ V	$I_{LED(DC)}$ mA	$I_{LED(RP)}$ mA	$I_{LED(PK)}$ A	$V_{LEDA}$ V	$V_{LEDC}$ V	$V_{TXD}$ V	$V_{RXD}$ V
2.70-5.25	100	500	1.0	-0.5-7.0	$V_{LEDA}$	5.5	$V_{CC} + 5.5$

Mftrs. List No.	Order Code	1+	50+	100+	250+	500+
<b>Surface Mount</b>						
HSDL-1001-011	<b>942-509</b>					
<b>Right Angle Mount</b>						
HSDL-1001-014	<b>942-510</b>					

### Infra-Red IrDA Compliant Transceiver



- Pin Description
- PIN bypass capacitor
  - Ground (Analogue)
  - Averaging capacitor
  - Supply voltage
  - Receiver data output - channel B
  - Ground
  - Transmitter data input
  - Receiver data output - channel A
  - Threshold capacitor
  - LED anode



- Fully compliant to IrDA 1.1 - 4 Mbps
- Compatible with ASK, HP-SIR, and TV Remote
- Backward compatible to slower speeds
- Excellent nose to nose operation
- Excellent noise immunity
- No programming to switch speeds
- Available in right angle package and surface mount (shown above)

## Evaluation Kit for IrDA Compliant Transceivers



These evaluation kits provide the necessary information and components to assist you in designing an optimum IrDA compliant infra-red system.

**HSDL-8000:** Developers kit for IrDA applications up to 115Kb/s. The kit contains HP's IrDA Design Guide, 2 fully functional PCBs with HSDL-1000 and HSDL-7001 on board. A HSDL-4220 and HSDL-4230 are provided for extended distance applications. It will interface to UART or RS-232 or Super I/O chipsets that support IrDA 1.0 at 115Kb/s

**HSDL-8001:** Developers kit for IrDA applications up to 115Kb/s. This kit is a more extensive version of the HDSL-8000 and contains HP's IrDA Design Guide, 2 serial IR adapters, software, fully functional PCBs with HSDL-1000 and HSDL-7001 on board. A HSDL-4220 and HSDL-4230 are provided for extended distance applications. It will interface to UART or RS-232 or Super I/O chipsets that support IrDA 1.0 at 115Kb/s.

**HSDL-8010:** Developers kit for IrDA applications up to 4 Mb/s. The kit contains HP's IrDA Design Guide, 2 fully functional PCBs with the HSDL-1100 on board. It will interface to chipsets that support IrDA 1.1 at 4 Mb/s.

Mftrs. List No.	Order Code	Price Each
HSDL-8000	<b>942-390</b>	1+
HSDL-8001	<b>139-750</b>	
HSDL-8010	<b>139-762</b>	

## IrDA Compliant Transceivers



- Conforms to IrDA spec. for transmission up to 115.2kbit/sec (IRMS6115) or 4Mbit/sec (IRMS6400)
- Miniature size - 9.6mm x 4.8mm x 4mm
- Wide supply voltage range 2.7 to 5.5V
- Universal device may be mounted to emit sideways or vertically
- Low power consumption - 90 $\mu$ A in standby mode ( $V_{CC} = 2.4V$ )
- Ideal for battery powered and low power applications

Miniature transceiver modules compliant with IrDA specification 1.2a.1 for transmission at data rates up to 4Mbit/sec. They are low cost devices that interface directly to I/O IC's. The devices may be mounted horizontally or vertically.

Data Rat	Mftrs. List No.	Order Code	1+	10+	25+	100+	250+
115.2kbit/sec	IRMS6115	<b>143-418</b>					
4Mbit/sec	IRMS6400	<b>143-420</b>					

continued

**Open Late!**

Don't forget we're here to take your orders,  
From 8.30am to 6.30pm Mon - Fri and  
from 9am to 12pm on Saturday.